Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-24-40** **Date: 27-09-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-40 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-24-40** **Date: 23-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-40 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-09-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2018-09-25-40** **Date: 29-09-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-18

Sample ID No : 2018-09-25-40 /04

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	200.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	20056	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	200.49	2.815	7854	145.1	18.5	18.5	23.1

Note:

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-09-25-40** **Date: 28-09-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-18
Sample ID No	:	2018-09-25-40 /07
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	101	203	8263	31.947	3866.5	3895.8	Not less than 1800Kg/m^3
2	405	102	202	8345	32.309	3871.8		
3	399	101	198	7979	31.510	3949.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2018-09-25-40** **Date: 28-09-18**

Sample ID No : **2018-09-25-40 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	101	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	101	203	
3	401	102	202	
4	402	102	203	
5	399	103	202	
6	401	101	202	
7	404	102	199	
8	403	103	202	
9	402	103	202	
10	404	101	203	
11	401	102	200	
12	401	103	203	
13	403	102	203	
14	400	102	200	
15	404	101	200	
16	399	103	199	
17	402	101	201	
18	401	103	200	
19	401	102	200	
20	401	102	203	
Average of 20	**402**	**102**	**201**	

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Lab ID : **CP-2018-09-25-40** **Date: 28-09-18**

Sample ID No : 2018-09-25-40 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	101	40607	356.8	8.8	9.0
2	400	101	40437	356.0	8.8	
3	401	102	40931	373.0	9.1	
4	402	102	40979	365.2	8.9	
5	399	103	41136	382.1	9.3	
6	401	101	40489	370.6	9.2	
7	404	102	41182	358.1	8.7	
8	403	103	41490	376.7	9.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-24-40** **Date: 27-09-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-40 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-24-40** **Date: 27-09-18**

Sample ID No : 2018-09-24-40 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-24-40** **Date: 26-09-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-40 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

Assistant Executive Engineer,
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-24-40** **Date: 26-09-18**

Sample ID No : 2018-09-24-40 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.6**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.22**	_
7	Aggregate crushing Value(%)	**24.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-24-40** **Date: 26-09-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-09-24-40 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 24-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-24-40** **Date: 26-09-18**

Sample ID No : 2018-09-24-40 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M10	01/10/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-03-40** **Date: 29/10/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-10-03-40 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	PCC	M10	01/10/2018	29/10/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

Note:
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M10	01/10/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	PCC	M10	01/10/2018	29/10/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M10	01/10/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	PCC	M10	01/10/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M10	01/10/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-03-40** **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-10-03-40 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	PCC	M10	01/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	PCC	M10	01/10/2018	29/10/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-08-40** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-18

Sample ID No : 2018-10-08-40 /01

Customer ID : PCC (M15)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC (M15)	M15	05/10/2018	12/10/2018	150.76 X 150.84 X 149.14	22740	**8.577**	279.2	12.3	12.7
2	PCC (M15)	M15	05/10/2018	12/10/2018	149.75 X 150.50 X 149.29	22537	**8.150**	290.9	12.9	
3	PCC (M15)	M15	05/10/2018	12/10/2018	149.02 X 149.69 X 149.91	22307	**9.038**	287.5	12.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-03-40** **Date: 02/11/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and beautification Works to Indira Canteen building in Ward No.8 Kodigehalli.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-10-03-40 /02
Customer ID	:	PCC (M15)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC (M15)	M15	05/10/2018	02/11/2018	149.42 X 151.59 X 151.82	22651	**8.688**	389.2	17.2	17.3
2	PCC (M15)	M15	05/10/2018	02/11/2018	150.09 X 151.57 X 150.92	22750	**8.383**	388.6	17.1	
3	PCC (M15)	M15	05/10/2018	02/11/2018	151.67 X 150.58 X 151.01	22837	**8.356**	399.5	17.5	

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Yelahanka Zone, B.B.M.P.,
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